IN THE CLAIMS:

Please amend Claim 6 as follows. For the Examiner's convenience, all claims currently pending in this application have been reproduced below:

1. (Original) An EUV exposure apparatus for scanning and exposing a pattern of an original plate to a substrate in a vacuum, the apparatus comprising:

an original plate stage for moving the original plate;

a substrate stage for moving the substrate;

an electromagnetic motor disposed in the vacuum and driving at least one of the original plate stage and the substrate stage; and

cooling means for cooling said electromagnetic motor an amount sufficient to prevent overheat damage of said electromagnetic motor resulting from heat generated by said electromagnetic motor.

- 2. (Original) An EUV exposure apparatus according to Claim 1, wherein said cooling means cools said electromagnetic motor by circulating a coolant.
- 3. (Original) An EUV exposure apparatus according to Claim 2, wherein said coolant has a temperature lower than a temperature of at least one of the original plate and the substrate.

- 4. (Original) An EUV exposure apparatus according to Claim 1, wherein at least one of the original plate stage and the substrate stage is out of contact with a heat generating portion of said electromagnetic motor.
- 5. (Original) An EUV exposure apparatus according to Claim 4, wherein at least one of the original plate stage and the substrate stage includes a fine movement mechanism for driving the at least one of the original plate and the substrate in a non-contact manner by utilizing electromagnetic forces.
- 6. (Currently Amended) An EUV exposure apparatus according to Claim 5, wherein said fine movement mechanism is supported to for driving the original plate stage or the substrate stage in a non-contact manner.
- 7. (Original) An EUV exposure apparatus according to Claim 1, wherein a heat generating portion of said electromagnetic motor is out of contact with at least one of a guide for at least one of the original plate stage and the substrate stage, a measuring device for measuring a position of at least one of the original plate stage and the substrate stage, an optical system for adjusting an EUV exposure light, and a chamber for maintaining the vacuum therein.

- 8. (Original) An EUV exposure apparatus according to Claim 1, wherein a measuring optical path of said measuring device for measuring a position of at least one of the original plate stage and the substrate stage is disposed in the vacuum.
- 9. (Original) An exposure apparatus for exposing a pattern to a substrate in a vacuum, the apparatus comprising:

a substrate stage for moving said substrate;

and

an electromagnetic motor disposed in the vacuum and driving said substrate stage;

cooling means for cooling said electromagnetic motor an amount sufficient to prevent overheat damage to said electromagnetic motor caused by heat generated by said electromagnetic motor.

10. (Original) A device manufacturing method comprising the steps of:

preparing an exposure apparatus according to any one of Claims 1 to 9, and
exposing a pattern to a substrate by employing said exposure apparatus.